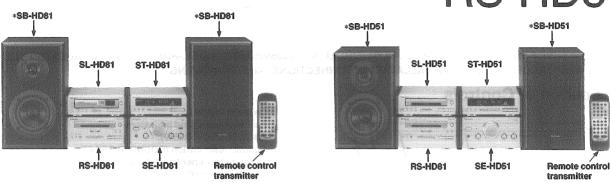
ORDER NO. AD9802029C2

Service Manual

Cassette deck

D C DOLBY SYSTEM

RS-HD81



Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

Colour

(N) Gold Type

Area

E Europe.

System: SC-HD51

SC-HD81

AR-1 MECHANISM SERIES

Specifications

Deck system Stereo cassette deck Track system 4 track, 2 channel AC bias **Recording system** 100kHz Bias frequency Erasing system AC erase Heads (Recording/Playback head) Permalloy head (Erasing head) Double gap ferrite head Motors Capstan drive DC servo motor Reel table drive DC motor Tape speed 4.8 cm/s Wow and flutter 0.1% (WRMS) Fast forward and rewind times Approx. 52 seconds with C-60 cassette tape Frequency response (Dolby NR off) TYPE I (Normal) 20Hz-17kHz (DIN) TYPE II (High) 20Hz-17kHz (DIN) S/N (Signal level=max recording level, TYPE II type tape)

NR off 56dB (A weighted)
Dolby B NR on 66dB (A weighted)

Input sensitivity and impedance

REC (IN) 280mV/23kΩ
Output voltage and impedance

PLAY (OUT) 280mV/220Ω

General

Dimensions (W \times H \times D) 196 \times 103 \times 221mm

Weight 1.8kg

Notes:

1. Weight and dimensions shown are approximate.

2. Design and specifications are subject to change without notice.

 Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
 "DOLBY", and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

System/SC-HD51:

TYPE IV (Metal)

Tuner: ST-HD51, Compact Disc Player: SL-HD51, Amplifier: SE-HD51, Cassette Deck: RS-HD81, Speaker: *SB-HD51 System/SC-HD81:

Tuner: ST-HD81, Compact Disc Changer: SL-HD81, Amplifier: SE-HD81, Cassette Deck: RS-HD81, Speakers: *SB-HD81

20Hz-17kHz (DIN)

Notes: *..... Made in PAES

AWARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics

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■ Contents

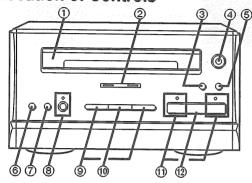
					Pag
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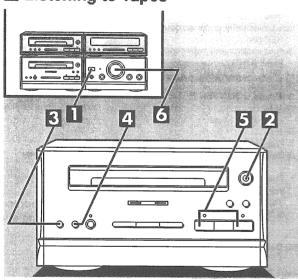
NOTE:

Refer to the service manual for Model No. SE-HD81 (ORDER No. AD9802028C2) and SE-HD51 (ORDER No. AD9802031C2) for information on "ACCESSORIES", "INSTALLATION", "CONNECTIONS" and "PACKAGING".

Location of Controls



Listening to Tapes



Playback

Type of tape which can be played correctly: The unit automatically identifies the type of tape.

Normal position/TYPE I	0
High position/TYPE II	0
Metal position/TYPE IV	0

- ① Cassette holder
- ② Fast forward/rewind indicators (HIGH SPEED FF/REW)
- ③ Counter reset button (COUNTER RESET)
- ④ Cassette tray open/close button
 (▲ OPEN/CLOSE)
- ⑤ Display button (DISPLAY)
- 6 Dolby noise reduction button (DOLBY NR)
- 7 Reverse mode select button (REV MODE)
- ® Record pause button and indicator (● REC PAUSE)
- Fast forward/rewind/tape program sensor buttons ([TPS] ◀◀, ▶▶ [TPS])
- 10 TPS skip button (TPS SKIP)
- In Playback buttons and indicators (◄, ►)
- Stop button (■)
- Switch on the power.
- Press ≜ OPEN/CLOSE on deck, and then insert the tape.

Load a tape with the exposed side facing the cassette holder's insertion part.

Insert the cassette tape until it touches the back of the compartment.

Press ▲ OPEN/CLOSE once again to close the cassette holder.

Keep your fingers out of the cassette tray so that you do not get pinched when it closes.

To listen to a tape recorded in Dolby B NR

Press DOLBY NR and check "DD"is displayed.

When playing back a tape which was not recorded on Dolby NR system, press DOLBY NR so that indications go off.

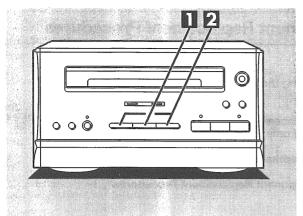
Press REV MODE to select the reverse mode.

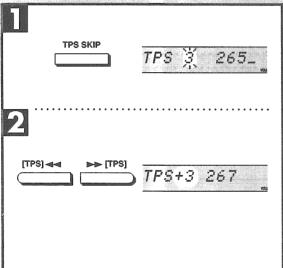
Each time you press REV MODE, one of the indicators will appear.

- The deck plays one side only, and then stops automatically.
- The deck plays both sides, and then stops automatically.
- C⇒: The deck plays both sides 8 times, and then stops automatically.
- F Press ◀ or ▶.
 - ▶: The forward side will play.
 - ■: The reverse side will play.
- Adjust the volume level as you like.

To stop tape playback:

Press .





To find the beginning of a program (TPS: tape program sensor)

The number of programs corresponding to the number of times TPS SKIP was pressed will be skipped, and the desired program is located (up to 9 programs before or after the program now heard).

Press TPS SKIP until selecting the numbers of tracks you want to skip.

Each time you press this button, the display will change as follows:

 $TPS \xrightarrow{1 \to 2 \to 3...8 \to 9 \to TAPE}$

Press [TPS] ◀◀ or ▶▶ [TPS].

If the forward side (▶) is playing:

▶▶ [TPS]: Skips forward by the number of tracks corresponding to the number you select in step 1. ("+" lights.)

[TPS] ◀◀: Skip backward by the number of tracks corresponding to the number you select in step 1. ("-" lights.)

When you select "TPS 1", the deck will skip back to the beginning of the track you are currently listening to and will start playing it again.

The illustration shows an example when you select "TPS 3" while the forward side (**>**) is playing.

If the reverse side (◀) of the tape is playing:

The reverse operation will take place.

Notes

- To change the setting (the number of the programs to be skipped, the tape travel direction, etc.) while TPS skip is activated, press ■ to stop the deck first.
- If the number of TPS skips specified is larger than the number of songs recorded on the tape, the unit may stop at the end of the tape or otherwise fail to operate correctly.

For your reference:

To skip to the next track or back to the beginning of the track you are currently listening to, perform only above step 2.

Notes

TPS is the function that searches for the silent passage in a tape program. So, it may sometimes fail to operate correctly in the following situations:

- When the interval between programs is less than 4 seconds
- •When there is a particular low-level passage in a program (for example, classical music)
- When the program is less than 10 seconds, or when it is less than 10 seconds from the listening point to the beginning of the next tune
- •When a tape recorded with fade-ins or fade-outs

Operation Checks and Main Component Replacement Procedures

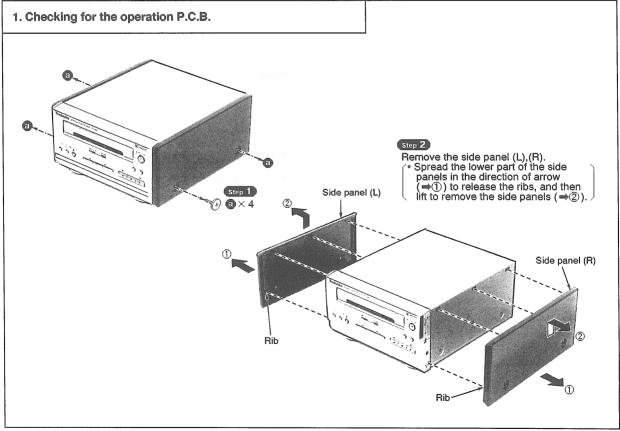
NOTE

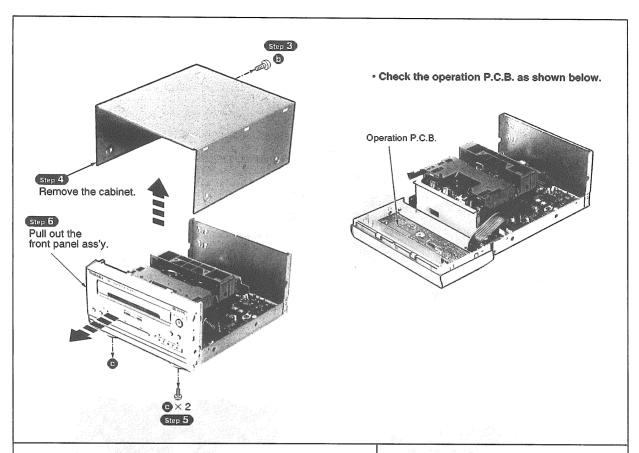
- 1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- 2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
- 3. Select items from the following index when checks or replacement are required.
- 4. Refer the parts No. on the page of "Main Component Replacement Procedures", if necessary.

· Contents

Contents	
Checking Procedure for each P.C.B.	Page.
1. Checking for the operation P.C.B	• • • • • • 4,5.
2. Checking for the main P.C.B	• • • • • • • 5.
Main Component Replacement Procedures	
Replacement for the cassette holder ass'y.	
2. Replacement for the belt, reel motor ass'y and capstan motor ass'y. • • • • • • • • • • • • • • • • • • •	••••• 8~10.
3. Replacement for the parts mounted on mechanism P.C.B • • • • • • • • • • • • • • • • • •	
4. Replacement for the head block and pinch roller ass'y. • • • • • • • • • • • • • • • • • • •	• • • • • • • 10.

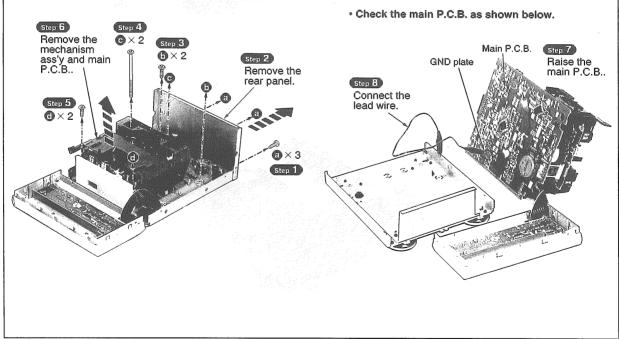
Checking Procedure for each P.C.B.



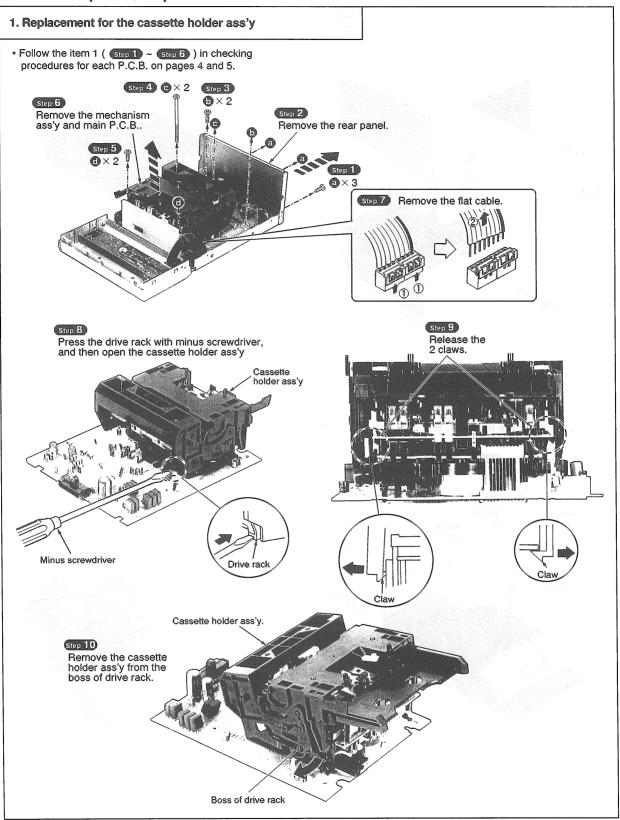


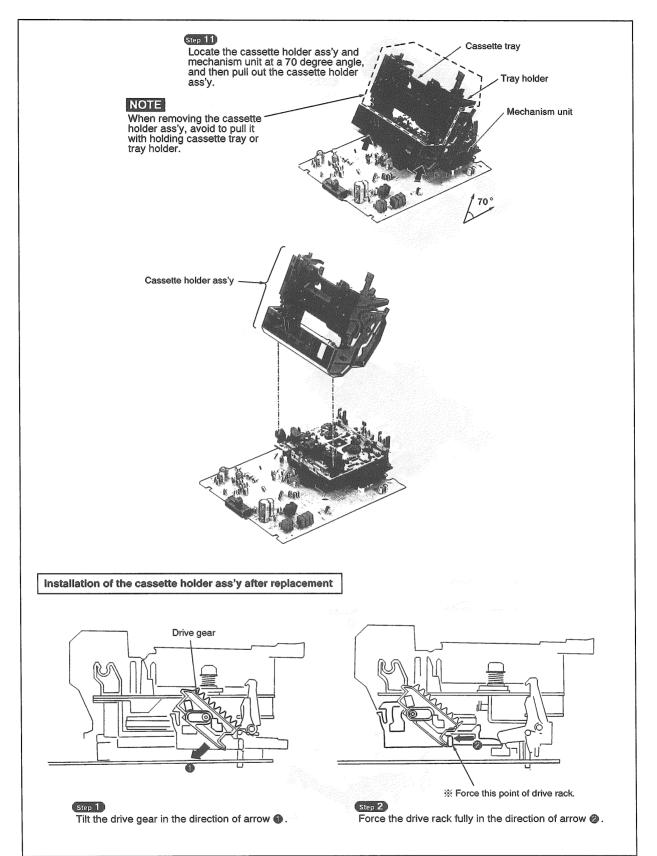
2. Checking for the main P.C.B.

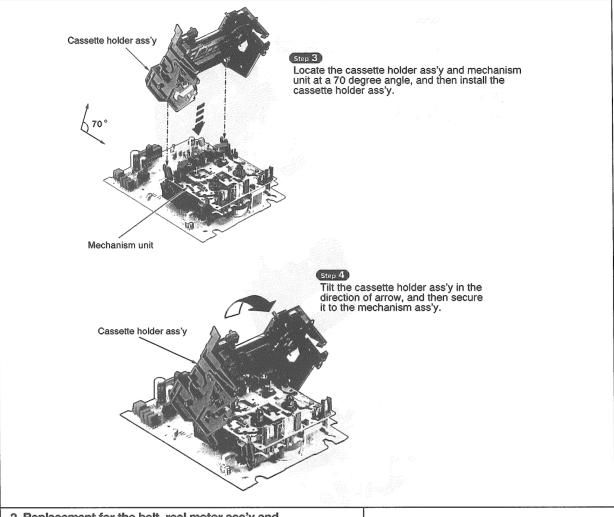
• Follow the item 1 (Step 1 ~ Step 6) in checking procedures for each P.C.B. on pages 4 and 5.



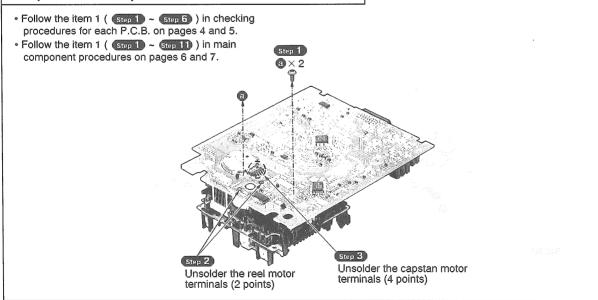
Main Component Replacement Procedures

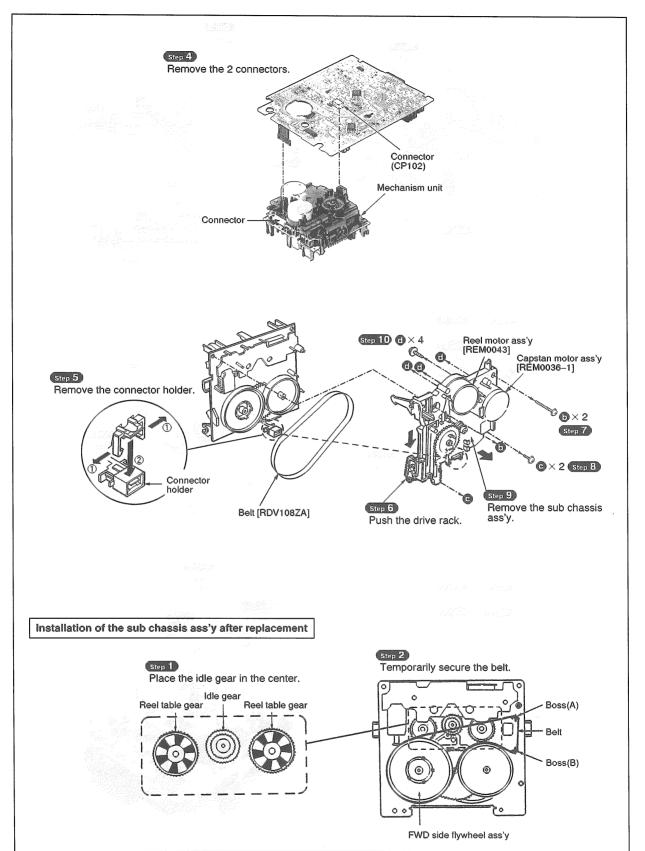


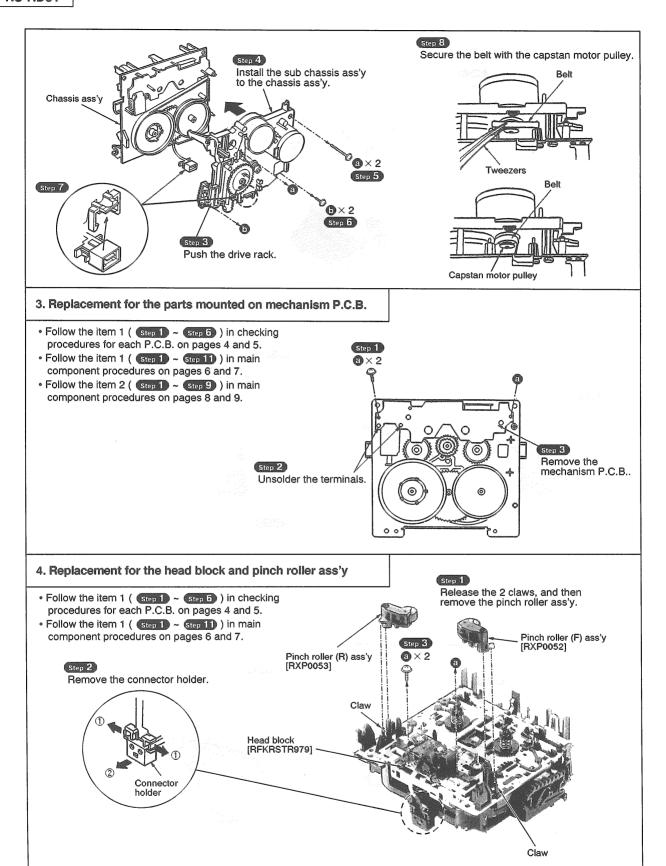




2. Replacement for the belt, reel motor ass'y and capstan motor ass'y





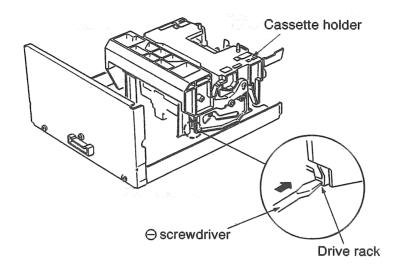


• Manually opening and closing the cassette holder assembly

• Follow the item 1 (Step 1 ~ Step 5) in checking procedures for each P.C.B. on pages 4 and 5.

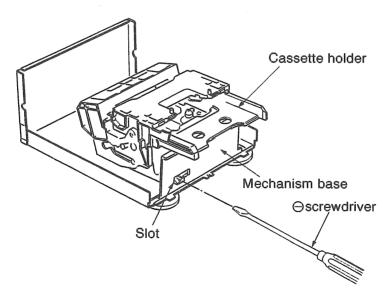
OPENING

Push the drive rack in the direction of the arrow with a \bigcirc screwdriver.



CLOSING

Push the drive rack back into position by inserting a \bigcirc screwdriver into the holes on the P.C.B.



Measurements and Adjustments

This unit RS-HD81 is designed to operate on power supplied from the Amplifier (SE-HD51 or SE-HD81) through Tuner (ST-HD51 or ST-HD81).

When connecting the unit to other system components, do not connect to the Amplifier (SE-HD81) directly. Be sure to connect this unit through the Tuner (ST-HD81) or ST-HD81).

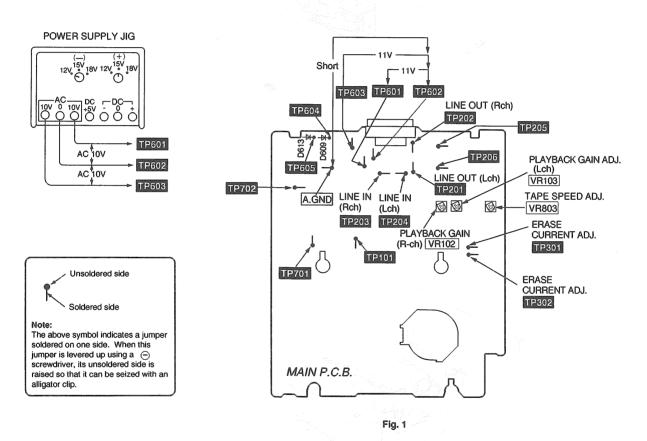
When operating the unit RS-HD81 alone for testing and servicing, without having power supplied from the Amplifier (SE-HD51 or SE-HD81) and Tuner (ST-HD51 or ST-HD81), use the following method.

To Supply Power Source

- 1. Short three sections the test points TP602, A. GND, and TP702.
- Apply 11 AC power to test points between TP601 and TP602 (GND), and TP603 and TP602 (GND).
 Note: When operated alone, this unit automatically enter the TEST mode, causing indicators to blink.

To Check Signals

Connect an oscilloscope or a built-in amplifier speaker between line output for Lch (TP201) and jumper (J118) A. GND, and line out for Rch (TP202) and jumper (J118) A. GND and check if the signals are outputting from this unit.



Measurement Condition

- Dolby NR switch; OFF
- Make sure heads are clean.
- Make sure capstan and pressure roller are clean.
- Judgeable room temperature 20 ± 5°C (68± 9°F)

Measuring instrument

- EVM (Electronic Voltmeter)
- AF oscillator
- Digital frequency counter

Test Tape

- Head azimuth adjustment (8kHz, -20dB); QZZCFM
- Tape speed adjustment (3kHz, -10dB); QZZCWAT
- Recording/ playback frequency response adjustment;
 QZZCFM (315Hz/0dB, 315Hz/–20dB, 12.5kHz~63Hz/–20dB)
 Normal blank tape

CrO2 blank tape Metal blank tape

— 12 —

HEAD AZIMUTH ADJUSTMENT

- 1. Connect the measuring instrument as shown in Fig. 2.
- Replace azumuth screws for both forward and reverse direction after removing the screw-locking bond left on the head base.

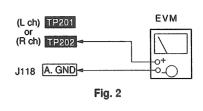
Fine adjustment of azimuth can not be performed with remaining the bond on the head base.

(Supply part No. of azimath adjusting screw: RHD17015)

- Playback the azimuth adjustment portion (8kHz, -20dB) of test tape (QZZCFM). Adjust the azimuth adjusting screw until the outputs of the L/Rch are maximized. (Refer to Fig. 3.)
 - Make sure that the difference in the peak level between the left and right channels does not exceed 0.5dB.
- 4. Perform the same adjustment in reverse playback mode.

Check of the level difference forward and reverse directions

- Playback the playback gain adjustment portion (315 Hz, 0dB) of test tape (QZZCFM). Check if level difference between forward and reverse direction is within 1.5 dB.
- 6. After the adjustment, apply screwlock to the azimuth adjusting screw.



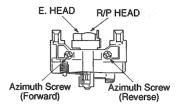


Fig. 3

TAPE SPEED ADJUSTMENT

Note: When connecting the unit to other system components for testing, short the section between the test points 17701 and 17702 and turn on the entire system. (The unit is set to the TEST mode, indicators will blink.)

Normal speed (Standard value: 3000 ± 45Hz)

- 1. Connect the measuring instrument as shown in Fig. 4.
- 2. Playback the middle portion of the test tape (QZZCWAT).
- 3. Adjust VR803 for the output value shown below. (Refer to Fig. 1)

Adjustment target: 3000 ± 15Hz Standard value: 3000 ± 45Hz

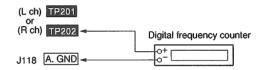


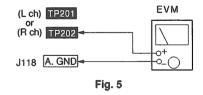
Fig. 4

Note: When connecting the unit to other system components, disconnect the short between the test points TP701 and TP702.

PLAYBACK GAIN ADJUSTMENT

- 1. Connect the measuring instrument as shown in Fig. 5.
- Find the start of the 315Hz/0dB section of the test tape (QZZCFM), insert the tape, and play it back (FWD).
- Adjust VR103 (Lch) [VR102 (Rch)] so that the output is within the standard value. (Refer to Fig. 1).

Standard value: 265mV ± 300mV



ERASE CURRENT CONFIRMATION

- 1. Connect the measuring instrument as shown in Fig. 6.
- 2. Insert the blank tape, and press the REC PAUSE button.
- 3. Check if the output at this time between the erase current confirmation point 17301 and 17302 (the output on both edged of R313) is within the standard value.

Standard value)	EVM reading
Normal tape	: 75 ± 25 mA	(75 ± 25 mA)
CrO ₂ tape	: 110 ± 25 mA	(110 ± 25 mA)
Metal tane	· 190 + 25 m A	(190 + 25 mA)

Note: The test tape is not required when confirming the erase current.

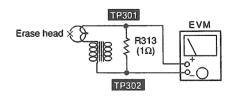
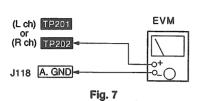


Fig. 6

Playback frequency response check

- 1. Connect the measuring instrument as shown in Fig. 7
- Playback the 315Hz/–20dB and 12.5 kHz to 63 Hz/–20dB sections of the test tape (QZZCFM) and then, using the 315 Hz/–20dB playback output as a reference (0 dB), confirm that the playback frequency response is within the range shown in Fig. 8.



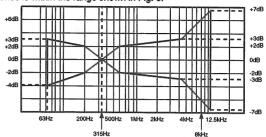


Fig. 8

Recordnig/playback frequency response and gain check

Normal tape check

- 1. Connect the measuring instrument as shown in Fig. 9.
- 2 Insert a Normal-type blank tape.
- 3. Record signals at 50 Hz, 100Hz, 200 Hz, 500 Hz, 1kHz, 2kHz, 10kHz and 12.5 kHz (28mV).
- 4. Set the playback frequency of the recorded signals at 1kHz as the reference response (0 dB).
- 5. Playback the recorded signals to confirm that the output is within the range of the overall frequency response shown in Fig. 10.

CrO2/ Metal tape check

6. Repeat steps 3 to 5 for each tape and confirm that the output for each is within the range of the overall frequency response shown in Fig. 11.

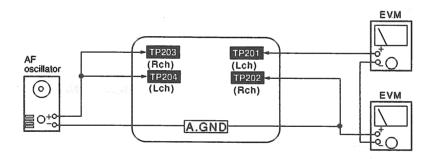


Fig. 9

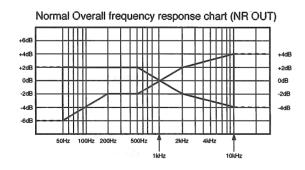


Fig. 10

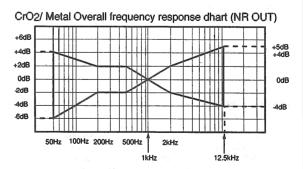


Fig. 11

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Service Mode Function of Cassette Mechanism

This unit is equipped with a service mode function of cassette mechanism using the LED indicators [R. PLAY (◀), F. PLAY (▶), REW (◀◀), FF(▶▶)]. Use this function during maintenance to check faults of the items below.

Cassette tapes to be prepared

Metal tape:

Recorded music tape with only one erase-prevention tab intact (use middle

portion of the tape).

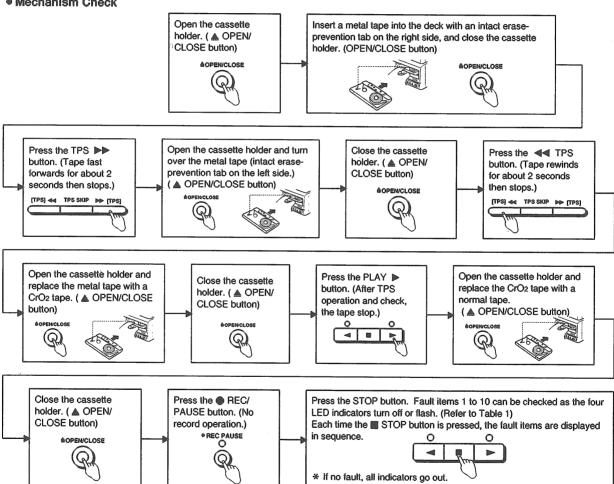
Normal tape:) Recorded music tape with both erase-prevention tabs intact (use middle

portion of the tape). CrO₂ tape:

Selecting Service Mode

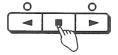
- 1. Turn on the power to the unit. (If RS-HD81 unit is removed from system, turn it on according to the procedure on page 12.)
- 2. Check that no tape is inserted in the cassette deck. Press the DOLBY NR button for about 2 seconds, and keep pressing it, also press the STOP button for about 2 seconds. (Service mode cannot be selected with a tape inserted in the cassette deck.)
- 3. The LED indicator for REC PAUSE flashes, the service mode has been activated.

Mechanism Check



Exiting-Self-Check Mode

- 1. Press the STOP button for more than 5 seconds. (Diagnostic contents stored in memory are erased.)
- Remove the cassette tape from the cassette holder.
- 3. Turn off the unit.



DOLBY NR

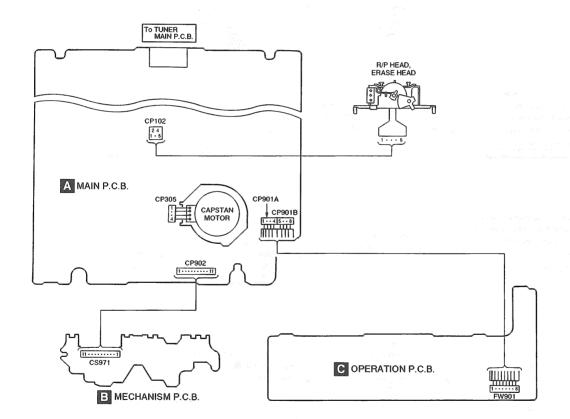
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No. LED in		ndicator sta	tus (off/fla	shing)	Fault location
140.		44		- Fault location	
1.				. •	MODE detect switch
2.	_	_		_	REC prevention switch
3.	_		•	•	Half detect switch
4.	_		_	_	Deck OPEN switch
5.	_			0	Deck CLOSE switch
6.	_		. •	_	CrO ₂ tape detect switch
7.	_	•	•		Metal tape detect switch
8.	•	_	_	_	Reel pulse detect system (Hall IC, etc.)
9.	•	_	_	•	TPS operation
10.	•	_	•	_	Reel motor

Table 1: Service Mode Diagnostic Items

- Notes:
 "• ": Flashing
 "-": off * If no fault, all indicators go out.

Wiring Connection Diagram



Schematic Diagram (Parts list on pages 28 ~ 30.)

• This schematic diagram may be modified at any time with development of new technology.

		Page
A MAIN CIRCUIT	 	18~20
B MECHANISM CIRCUIT	 	
		, TO 1
C OPERATION CIRCUIT		21
Messen	 ·····	······································

Notes:

- \$803: Cassette holder open detection switch in "off" position.
- \$804: Cassette holder close detection switch in "off" position.
- \$900: Stop (■) switch.
- \$901: Dolby noise-reduction switch (DOLBY NR).
- S902: Rewind tape program sensor switch (◀◀ [TPS]).
- \$903: Reverse-side playback switch (<).
- \$904: TPS skip switch (TPS SKIP).
- \$905: Forward-side playback switch (▶).
- \$906: Fast forward tape program sensor switch (▶▶ |TPS|).
- \$909: Rec pause switch (REC PAUSE).
- \$910: Cassette holder open/ close switch (A OPEN/ CLOSE).
- \$911: Counter display switch (DISPLAY).
- \$912: Counter reset switch (RESET).
- \$915: Reverse-mode select switch (REV. MODE).
- \$971: Mode switch in "off" position.
- \$972: Half switch in "off" position.
- \$973: ATS (CrO₂) switch in "off" position.
- S974: Reverse rec. inhibit switch in "off" position.
- \$975: Forward rec. inhibit switch in "off" position.
- \$976: ATS (Metal) switch in "off" position.
- Resistance are in ohms (Ω) , 1/4 watt unless specified otherwise. 1K=1,000 (Ω) , 1M=1,000 (Ω)
- Capacity are in micro-farads (µF) unless specified otherwise.
- All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.
).....Voltage values at record mode.

For measurement us EVM.

- Voltage values and waveforms are measured as indicated in the schematic diagram when test points between TP604 and TP605, and between A. GND and TP602 are shorted.
- Important safety notice:
 - Components identified by A mark have special characteristics important for safety.

When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

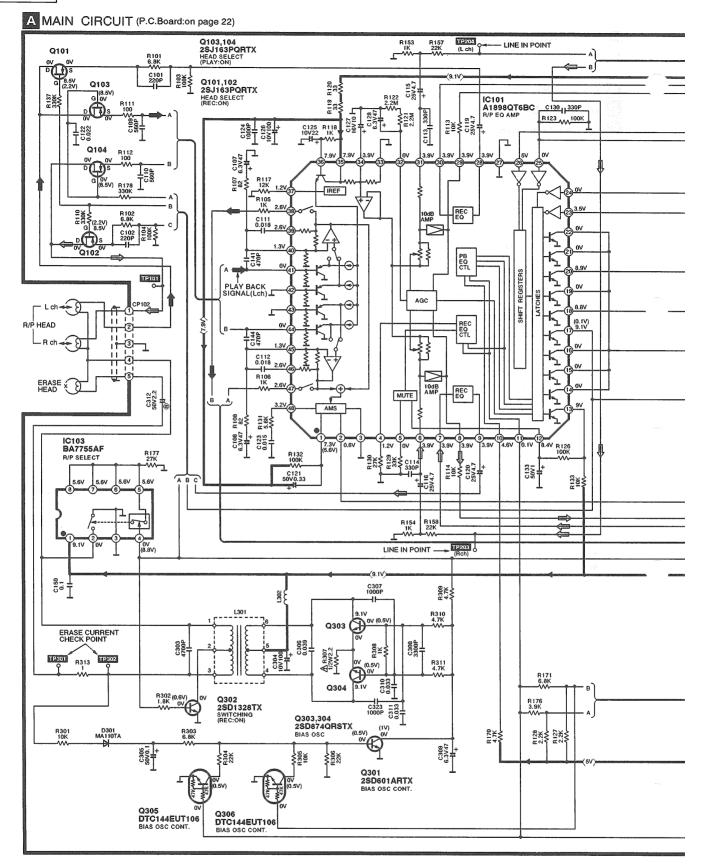
- Positive voltage line
 - : Negative voltage line
 - : Playback signal line
 - : Recording signal line

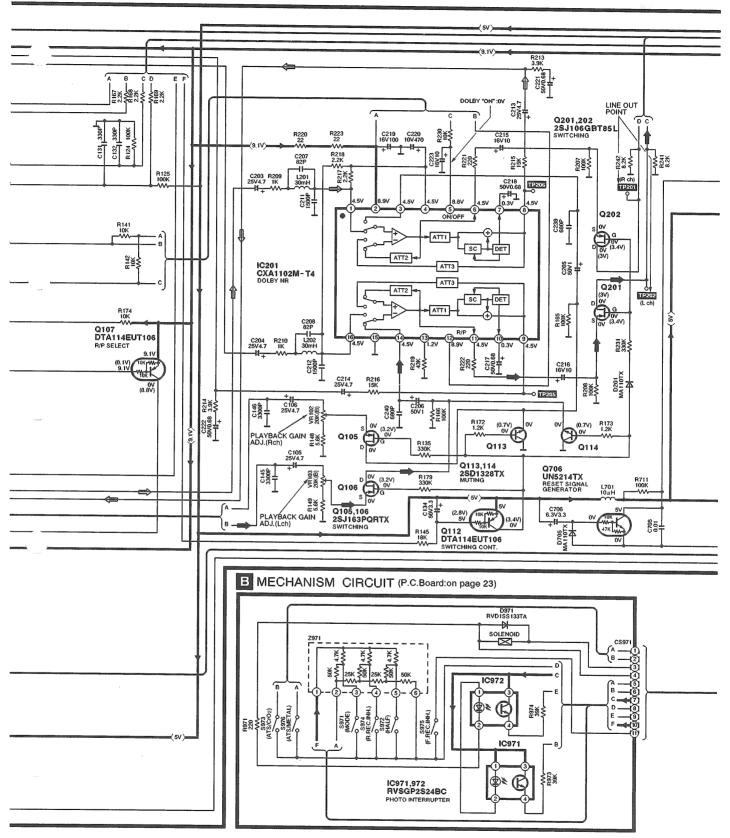
Caution!

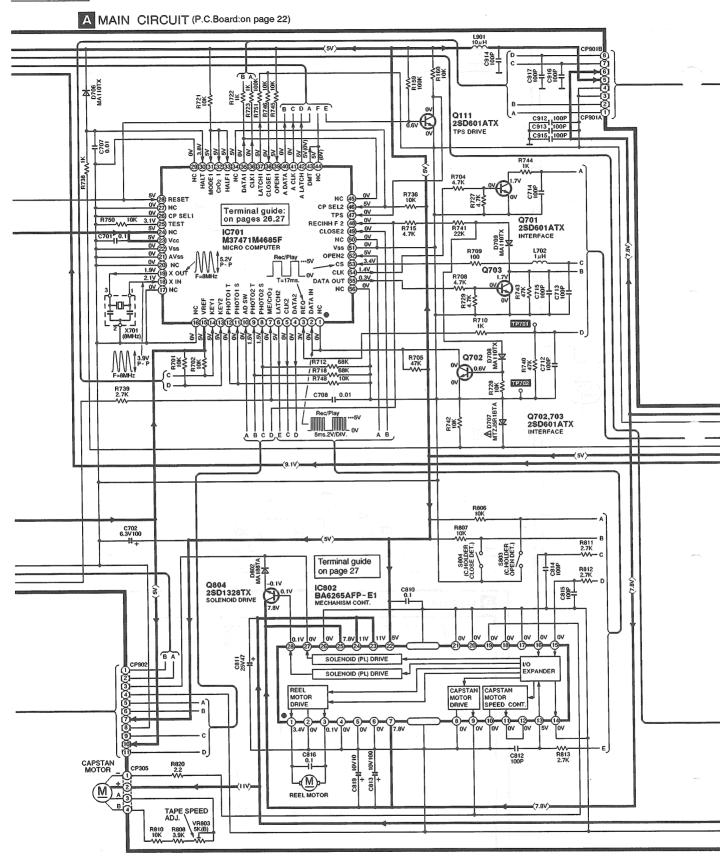
IC and LSI are sensitive to static electricity.

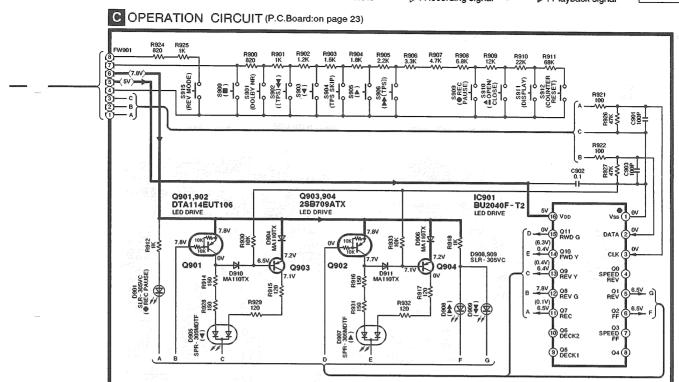
Secondary trouble can be prevented by taking care during repair.

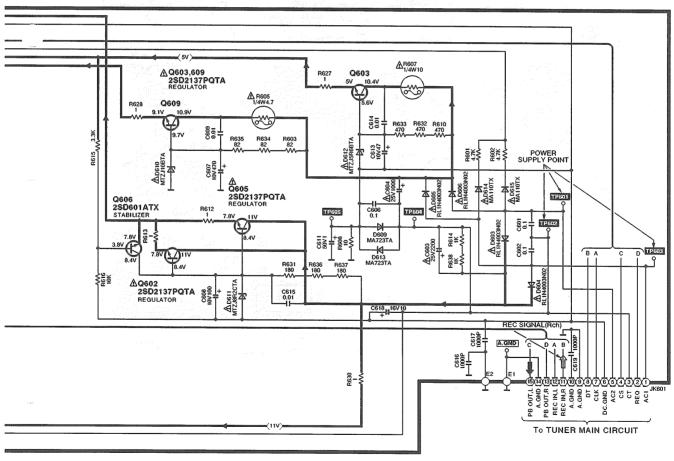
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering Iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.







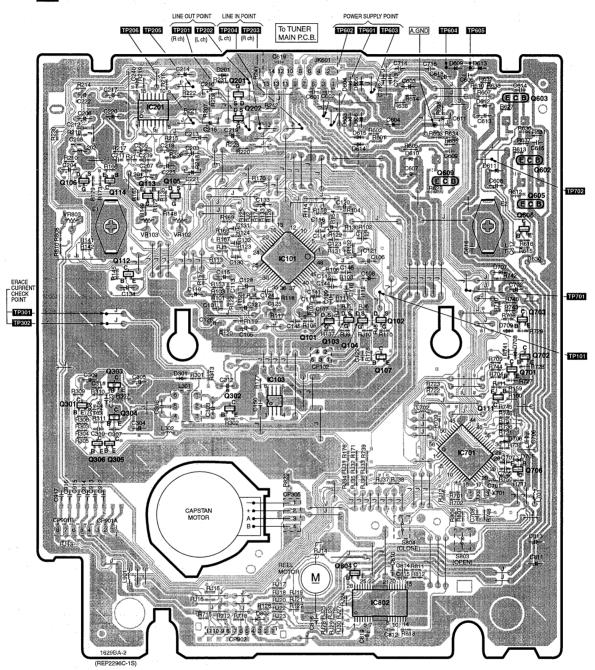




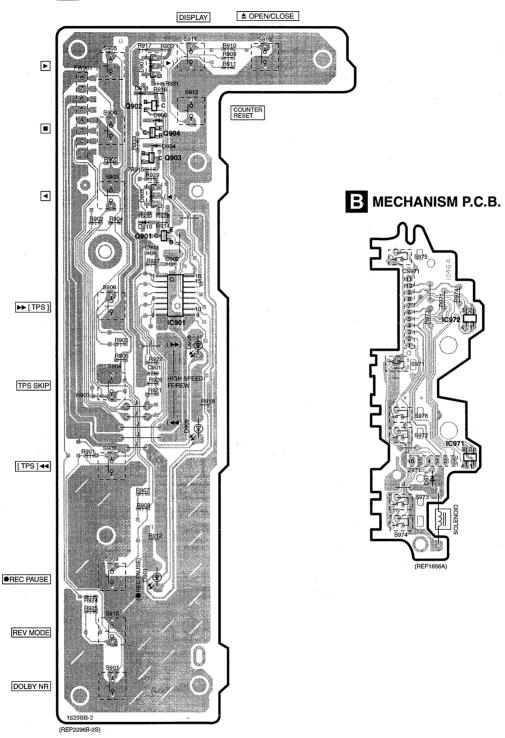
■ Printed Circuit Board Diagram

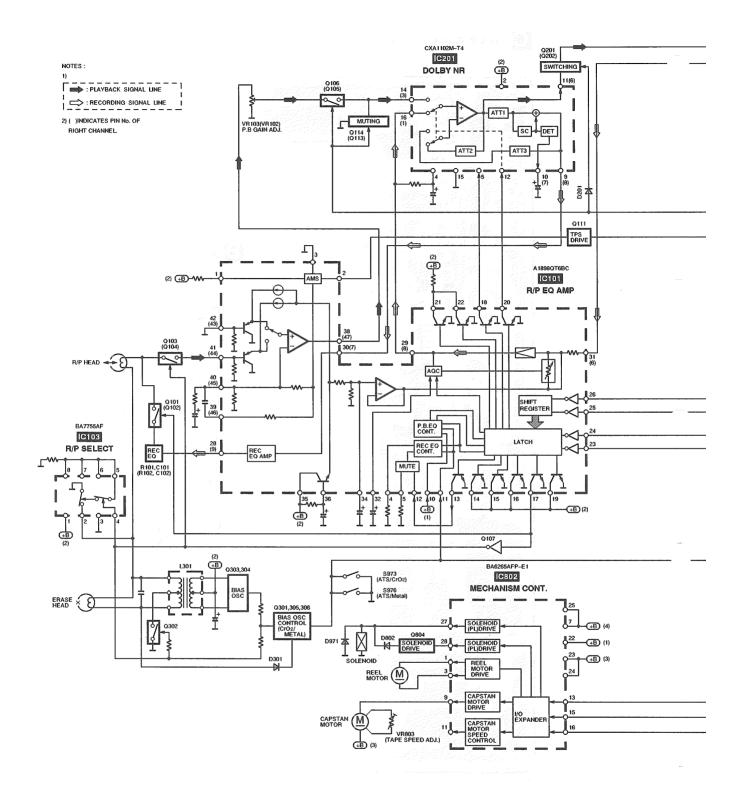
(This printed circuit board diagram may be modified at any time with the development of new technology.)

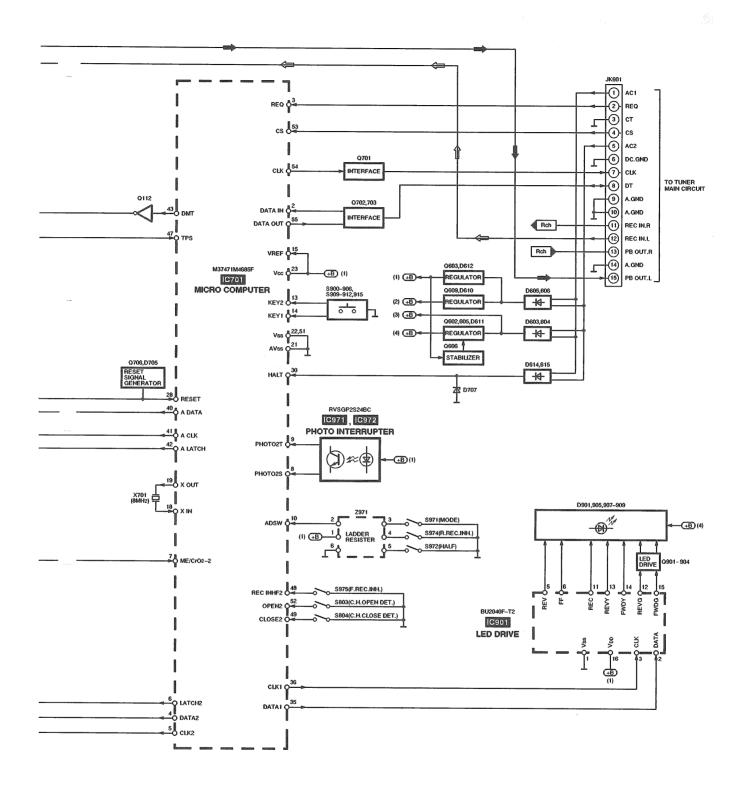
A MAIN P.C.B.



C OPERATION P.C.B.







■ Terminal Function of IC's

• IC701 (M37471M4685F): MICRO COMPUTER

Pin No.	Mark	1/0	Function
1	NC	-	Not used
2	DATA IN	I	Serial data input
3	REQ	ı	Request signal input
4	DATA2	0	Mechanism control data output
5	CLK2	0	Mechanism control clock output
6	LATCH2	0	Mechanism control latch signal output
7	ME/CrO2-2	1	Tape select switch input
8	PHOTO2_S	-	Reverse side reel pulse input
9	PHOTO2_T	1	Forward side reel pulse input
10	AD_SW	t	Mechanism switch signal input
11	PHOTO1_S	1	Reverse side reel pulse input
12	PHOTO1_T	1	Forward side reel pulse input
13	KEY2	1	Vou quitab aireat innut
14	KEY1	1	Key switch signal input
15	VREF	ı	Reference voltage input
16	NC	_	Not used
17	NC	1	Not used
18	XIN	I	Clock input
19	XOUT	0	Clock output
20	NC	_	Not used
21	AVSS	-	Connect to GND
22	VSS	-	Connect to GND
23	vcc	_	Power supply (+5V)
24	NC	-	Not used
25	TEST	ı	Test mode select (Not used)
26	CP_SEL1	_	Not used
27	NC	_	Not used
28	RESET	1	Reset signal input

Pin No.	Mark	1/0	Function
29	NC	-	Not used
30	HALT	ı	AC power source detect signal input
31	MODE1	ı	Mode detect switch signal input
32	CrO2-1	1	Tape select switch signal input
33	HALF1	1	Half detect switch signal input
34	NC	-	Not used
35	DATA1	0	Control data output
36	CLK1	0	Control clock output
37	LATCH1	0	Mechanism control latch signal output
38	CLOSE1	1	Cassette holder close detect switch signal input
39	OPEN1	ı	Cassette holder open detect switch signal input
40	A DATA	0	Serial data output
41	A CLK	0	Serial clock output
42	A LATCH	0	Latch signal output
43	DMT	0	Muting control signal output
44	NC	-	Not used
45	NC	-	Not used
46	CP_SEL2	-	Not used
47	TPS	ı	TPS signal input
48	RECINH F_2	ı	Record prevention tab detect switch signal input
49	CLOSE2	I	Cassette holder close detect switch signal input
50	NC	-	Not used
51	VSS	-	GND terminal
52	OPEN2	ı	Cassette holder open detect switch signal input
53	cs	ı	Serial data control signal input
54	CLK	0	Serial clock output
55	DATA OUT	0	Serial data output
56	NC	-	Not used

• IC802 (BA6265AFP-E1): MECHANISM CONTROL

Pin			
No.	Mark	1/0	Function
1	RM(-)	0	Reel motor drive (-) output terminal
2	RNF	-	GND terminal
3	RM(+)	0	Reel motor drive (+) output terminal
4	NC		
5	NC	-	Not used, connected to GND
6	NC		
7	VCC2	ı	Power supply terminal
8	CPM GND	-	GND terminal
9	СРМ	0	Capstan motor drive output terminal
10	NC	-	Not used, connected to pin11
11	CPM SW	0	Capstan speed select SW output terminal
12	NC	_	Not used, connected to pin 11
13	LATCH	ı	I/O expander latch signal input terminal
14	S0	0	I/O expander serial output terminal

Pin No.	Mark	1/0	Function
15	DATA	ı	I/O expander data signal input terminal
16	CLK	ı	I/O expander clock signal input terminal
17	NC	_	No.
18	NC	-	Not used, connected to GND
19	NC	_	Not used, connected to pin 9
20	GND	-	GND terminal
21	GND	_	GND terminal
22	VCC1	ı	Power supply terminal
23	VCC3	ı	Power supply terminal
24	VCC3	ı	Power supply terminal
25	NC	-	Not used, connected to power supply
26	GND	-	GND terminal
27	PL 15V	0	Plunger output terminal(15V)
28	PL 7.5V	0	Plunger output terminal(7.5V)

■ Type Illustrations of IC's Transistors and Diodes

BA7755AF	CXA1102M-T4 BU2040F-T2	BA6265AFP-E1	A1898QT6BC	M37471M4685F	RVSGP2S24BC
1 4 5	166	28 22 21 1 7 8	36 37 48 1	29 28 44 45 56 1	4 1 1 3 2
DTA114EUT106 DTC114EUT106		2SB709ATX	2SJ106GBT85L 2SJ163PQRTX	2SD874QRSTX	2SD2137PQTA
BCE	B E	2SD1328TX 2SD601ARTX 2SD601ATX UN5214TX	s D	BCE	BCE
RL1N4003N02	MA188TA	MA723TA			MA110TX
Ca Cathode	Ca Cathode Anode	RVD1SS133TA Ca Cathode A	Ca Cathode	MTZJ10BTA MTZJ5R1BTA MTZJ5R6BTA MTZJ8R2CTA	Cathode Ca Anode
SLR-305VC	SPR-305MDTF				
Anode Cathode	Anode Cathode Anode				

Replacement Parts List

Notes: *Important safety notice:

Components identified by △ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fireretardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts

- * The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.) Parts without these indications can be used for all
- * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
- *Resistance values are in ohms, unless specifi otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)

	C122	ECUV1E223KBN	25V	0. 022U	1	
	C123	ECUV1E153KBN	25V	0.015U	1	
d	C124	ECUV1H102KBN	50V	1000P	1	
	C125	ECEA1AKA220B	107	22U	1	
	C126	RCE1AKA101BG	107	100U	1	
	C127	RCE1CKA100BG	167	100	1	
	C128	ECEAOJKA470B	6. 3V	47UF	1	
	C130-32	ECUV1H331KBN	507	330P	3	
	C133	ECEA1HKA010B	50V	10	1	
	C134	RCE1HKA3R3BG	50V	3.30	1	
	C141	ECUV1H471KBN	50V	470P	1	
	C144	ECUV1H471KBN	50V	470P	1	
	C145, 46	ECUV1H332KBN	507	3300P	2	
	C150	ECUV1E104ZFN	25V	0. 1U	1	
	C203, 04	ECEA1EKA4R7B	25V	4.70	2	
	C205, 06	ECEA1HKA010B	500	10	2	
	C207, 08	ECUV1H820JCN	500	82P	2	
-1	<u></u>					
-	C211, 12	ECUV1H152KBN	50V	1500P	2	
-1	C213, 14	ECEA1EKA4R7B	25V	4. 7U	2	
_	C215, 16	RCE1CKA100BG	167	100	2	
_	C217, 18	ECEA1HKAR68B	50V	0.68U	2	
	C219	ECEA1CKA101B	167	1000	1	
	C220	ECA1AM471B	167	470U	1	
20	C221, 22	ECEA1HKAR68B	507	0. 68U	2	An Evapa Aura
	C223	RCE1CKA100BG	167	10U	1	
_	C239, 40	ECUV1H681KBN	50V	680P	2	
\neg	C303	ECQP2E472JZT	250V	4700P	1	
\dashv	C304	RCE1AKA101BG	100	1000	1	
-	C305	ECEA1HKA0R1B	500	0.10	1	
-1					-	
4	C306	ECQB1H393JF3	50V	0.0390	1	
_	C307	ECUV1H102KBN	50V	1000P	1	
_	C308	ECUV1H332KBN	50V	3300P	1	
_	C309	ECEAOJKA470B	6.3V	47UF	1	
	C310, 11	ECUV1E333KBN	25V	0.033U	2	
7	C312	ECEA1HKN2R2B	50V	2. 2U	1	
\neg	C323	ECUV1H102KBN	50V	1000P	1	
	C601,02	ECUV1E104ZFN	25V	0. 1U	2	
\neg	⚠ C603	ECA1EM222E	25V	2200U	1	
-1	⚠ C604	ECA1EM102B	25V	1000U	1	
-	C606	ECUVIE 104ZFN	25V	0.10	Ιi	
	1					
\dashv	C607	ECA1AM471B	107	470UF	1	
_	C608	RCE1AKA101BG	107	1000	1	
	C609	ECUV1H103KBN	50V	0. 01U	1	
┙	C611	ECEA1HKA010B	50V	10	1	
_1	C613	RCE1AKA470BG	107	47U	1	
	C614,15	ECUVIH103KBN	50V	0. 01U	2	
7	C616, 17	ECUV1H102KBN	50V	1000P	2	
\neg	C618	RCE1CKA100BG	16V	10U	1	
\neg	C619	ECUV1H102KBN	50V	1000P	1	
-1	C701	ECUVIEI04ZFN	25V	0.10	1	
\dashv	C702	ECEAOJKA101B	6.3V	1000	1	
\dashv					_	
	C705	ECUV1H103KBN	50V	0.010	1	
_	C706	ECSTOJY335RR	6.3V	3. 30	1	
	C707,08	ECUV1H103KBN	50V	0.010	2	
	C712-15	ECUV1H101KCN	50V	100P	4	
	C810	ECUVIE104ZFN	25V	0.10	1	
\dashv	C811	ECEA1EKA470B	25V	47U	1	
-		1	<u> </u>		†	
					\vdash	
		i	1		1	1

Part Name & DescriptionPcs

GEAR ASS'Y DRIVE RACK

SPRING

SPRING

SCREW

REEL TABLE

CASSETTE HOLDER

4. 70

0.0180

4. 7U

0.33UF

2 2 2

2 1 1

Remarks

Ref. No.

231

233-1

233-2

240

241

C101,02

C105, 06

C109, 10

C121

C122

Part No.

RMQ0536 RYF0334B-K3

RMC0310

RMB0397

RXR0018

XTW2+5L

C111,12 ECUV1E183KBN 25V C113,14 ECUV1H331KBN 50V

ECUV1H221KBN 50V

ECEA1EKA4R7B 25V ECEA0JKA470B 6.3V

ECUV1H561KBN 50V

ECEA1EKA4R7B 25V C119, 20 ECEA1EKA4R7B 25V

ECEA1HKAR33B 50V

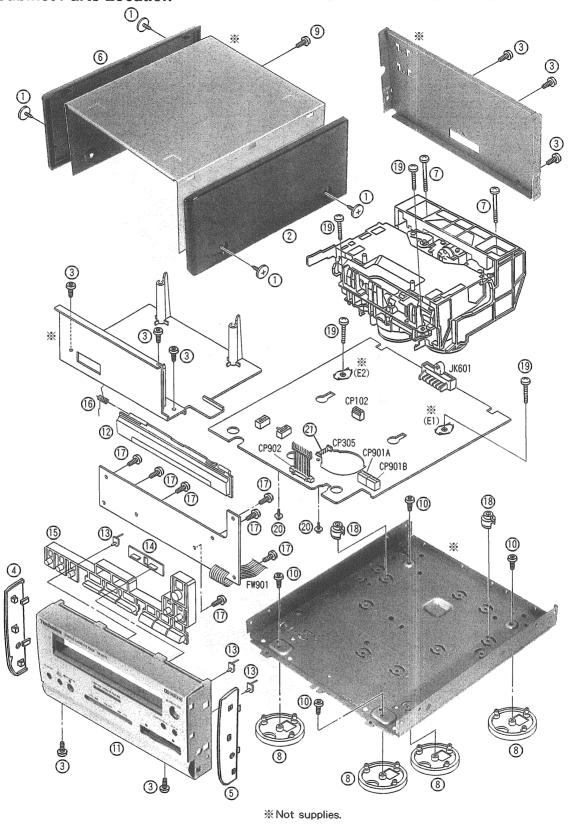
ECUV1E223KBN 25V

					C203, 04	ECEA1EKA4R7B	257	4. 70	2	
		and the second second			C205, 06	ECEA1HKA010B	500	10	2	
Ref. No.	Part No.	Part Name & DescriptionPo	cs	Remarks	C207, 08	ECUV1H820JCN	500	82P	2	
			Т		C211, 12	ECUV1H152KBN	507	1500P	2	
1	RHD30073-K	SCREW	4		C213, 14	ECEA1EKA4R7B	25V	4. 7U	2	
2	RGK0809-1M	SIDE PANEL (R)	1		C215, 16	RCE1CKA100BG	167	100	2	
3	XTBS3+8JFZ1	SCREW	8		C217, 18	ECEA1HKAR68B	50V	0. 68U	2	
4	RGK0810-N3	SIDE ORNAMENT(L)	1		C219	ECEA1CKA101B	167	1000	1	
5	RGK0811-N3	SIDE ORNAMENT(R)	1		C220	ECA1AM471B	167	470U	1	
6	RGK0808-1M	SIDE PANEL(L)	1	odalski, Vi	C221, 22	ECEA1HKAR68B	507	0.680	2	An illustration of the
7	RHD30069	SCREW	2		C223	RCE1CKA100BG	167	10U	1	
8	RKA0076-N	FOOT	4		C239, 40	ECUV1H681KBN	50V	680P	2	
9	XTBS3+10JFZ1	SCREW	1		C303	ECQP2E472JZT	250	V 4700P	1	
10	XTB3+6G	SCREW	4		C304	RCE1AKA101BG	107	1000	1	
11	RFKGRSHD81-S	FRONT PANEL ASS'Y	1		C305	ECEA1HKA0R1B	507	0.10	1	
12	RFKRSHD7-N	CASSETTE DOOR ASS'Y	1		C306	ECQB1H393JF3		0.039U	1	
13	RGL0331-Q	PANEL LIGHT (A)	3		C307	ECUV1H102KBN	500	1000P	1	
14	RGL0332-Q	PANEL LIGHT (B)	1	794.	C308	ECUV1H332KBN	507	3300P	1	
15	RGU1391-S	BUTTON	1	96.02	C309	ECEAOJKA470B	6.3	V 47UF	1	
16	RMB0478	CASSETTE DOOR SPRING	1		C310, 11	ECUV1E333KBN	25V	0.033U	2	
17	XTBS26+8J	SCREW	7		C312	ECEA1HKN2R2B	500	2. 2U	1	
18	SHE170-2	P. C. B. SUPPORT	2		C323	ECUV1H102KBN	507	1000P	1	
19	XTB3+12JFZ	SCREW	4		C601,02	ECUV1E104ZFN	25V	0. 1U	2	
20	XTW2+6S	SCREW	2		▼ Ce03	ECA1EM222E	25V	22 00 U	1	
21	RJR0113	CONNECTOR (4P) (CP305)	1		⚠ C604	ECA1EM102B	25V	1000U	1	
206	RFKRSTR979	HEAD BLOCK ASS'Y	1		C606	ECUV1E104ZFN	25V	0.10	1	
206-1	RHD17015	AZIMUTH SCREW	2		C607	ECA1AM471B	107	470UF	1	
206-2	RMB0352-1	SPRING	1		C608	RCE1AKA101BG	100		1	
206-3	RMQ0360A	CONNECTOR HOLDER	1		C609	ECUV1H103KBN	507	0. 01U	1	
207	RDV108ZA	BELT	1		C611	ECEA1HKA010B	500	10	1	
208	RDK0019A-1J	MAIN GEAR	1		C613	RCE1AKA470BG	104	47U	1	
220	RXG0036	REEL TABLE GEAR	2		C614, 15	ECUV1H103KBN	507	0.01U	2	
221	RXL0106	TOGGIT GETEIN	1		C616, 17	ECUV1H102KBN	500	1000P	2	
222	RXP0052	PINCH ROLLER (F) ASS'Y	1		C618	RCE1CKA100BG	16V	100	1	
222-1	RMB0259	SPRING	1		C619	ECUV1H102KBN	500	1000P	1	
223	RXP0053	PINCH ROLLER(R) ASS'Y	1		C701	ECUV1E104ZFN	25V	0. 1U	1	
223-1	RMB0260	SPRING	1		C702	ECEA0JKA101B	6.3	V 100U	1	
224	RDG0206-1	GEAR	1		C705	ECUV1H103KBN	50V	0.01U	1	
225	RDG0209A	GEAR	1		C706	ECSTOJY335RR	6.3	V 3.3U	1	
226	REM0036-1	CAPSTAN MOTOR ASS'Y	1		C707, 08	ECUV1H103KBN	50V	0.010	2	
227	REM0043	REEL MOTOR ASS'Y	1		C712-15	ECUV1H101KCN	50V	100P	4	
228	RHD26013	SCREW	4		C810	ECUVIE104ZFN	25V	0. 1U	1	
229	RMQ0537	DRIVE GEAR	1		C811	ECEA1EKA470B	257	47U	1	
			1						1	
		t · · · · · · · · · · · · · · · · · · ·	-			1			-	I

	Dot Me	Dont M.	Dant Name O Description	J	D:	1	In	_	T
GELL GENTEL HEAVE 1997 1999 2 1997 19	Ref. No.	Part No.	Part Name & Description Po	s Remarks	Ref. No.	Part No.		-	
ACTIVITY CONTINUES CONTI				<u> </u>					
ADM COUNTS COUNTY COUN					Q903, 04	23B1 U9A1A	TRANSISTUR	-2	2
CASH					R101 02	ER INCEV INROV	1/10W 6 8K	١,	,
CONTROL CONT				`				_	
GONDAY CONTROL CONTROL SEPT 1								-	
COMPATION COMP				1				_	
COMPANY CONTRIVENCY CONT	C903	ECUV1H101KCN	50V 100P	1				-	
	C912-17	ECUV1H101KCN	50V 100P	6				2	2
COMPAND LIGHT PAIR COMMETTION (AP) 1					R113, 14			2	2
Company	CP102	RJS2A0205-2S	CONNECTOR (5P)	1	R117	ERJ6GEYJ123V	1/10W 12K	1	1
GP090	CP901A	RJS1A1704	CONNECTOR (4P)	1	R118	ERJ6GEYJ102Z	1/10W 1K	1	1
CSST AURYSHIPM COMECTOC(1P) 1			CONNECTOR (4P)	1	R119, 20	ERJ6GEYJ330V	1/10W 33	2	2
	CP902	RJT071H11A	CONNECTOR (11P)	1	R121,22	ERJ6GEYJ225V	1/10W 2.2M	2	2
					R123-26	ERJ6GEYJ104V	1/10W 100K	4	4
DODID MAITOTE DODE	CS971	RJU071H11M	CONNECTOR (11P)	1	R127, 28			2	2
DOBS								1	1
AD-0849 RAI-MORDSHOPE A								_	
DATE								1	1
AD-011 MTZ-108TA DIOCE 1								1	1
ADDIT								1	1
ADDITION TOTAL DOING					I			\vdash	
Design								1	
ADMINISTRATION DIOCE 2									
D705, 68 MAITON D100E 2								<u>'</u>	'
ADDITION MYZISHIBTA DIODE									
DOBS									
DB001									
Debt								<u> </u>	·
D890				1				_	
D896 SPR-30SHOTE L.E.D. 1	D904	MA110TX	DIODE	1				-	
Debt	D905	SPR-305MDTF	L. E. D.	1	R170			-	
D000.09 SLR-305YC L.E. D. 2 R174 RENGERY 100Y 1/0W 100K 1	D906	MA110TX	DIODE	1	R171			1	1
D910, 11 MA110TX	D907	SPR-305MDTF	L.E.D.	1	R172,73	ERJ6GEYJ122V	1/10W 1.2K	2	2
D971 RYDISSI33TA DIODE					R174	ERJ6GEYJ103V	1/10W 10K	1	1
FW901 RE2085 FLAT CABLE (6P)					R176	ERJ6GEYJ392V	1/10W 3.9K	1	1
FM901	D971	RVD1SS133TA	DIODE	1	R177	ERJ6GEYJ273V	1/10W 27K	1	1
R209,10								2	2
CICID A 18980TERC C	FW901	REZ0885	FLAT CABLE (8P)	1				_	
C103 SA77554F C								-	<u> </u>
CZ211 CXA1102M-T4 C C								<u> </u>	-
COTOL M37471M4865F IC								_	
TC802 BA6265AFP-E1 IC								2	2
								Ľ	
R230								1	1
NR601 RJT065K15 SYSTEM CONNECTOR (15P) 1 R231 ERJ6GEYJ334V 1/10W 330K 1								-	' <u>'</u>
R241, 42 ERJ6GEYJ822V 1/10W 8. 2K 2	JK601	RJT065K15	SYSTEM CONNECTOR (15P)	1				'	1
L201,02 SLQX303-1KT COIL 2 R301 ERJGGEYJ182Y 1/10W 10K 1 R302 ERJGGEYJ182Y 1/10W 1.6K 1 R302 R1.0BCD06M-T COIL 1 R303 ERJGGEYJ182Y 1/10W 1.6K 1								۱,	;
R301 RL08C006M−T CO1L	L201,02	SLQX303-1KT	COIL	2				1	
R302 RLQZB470KT-D COIL								1	
L701 RLQA100JT-Y COIL	L302	RLQZB470KT-D	COIL	1				1	1
L901 RLQA100JT-Y COIL				1	R304			1	1
A R307 ERDSIFJER2 1/2w 2.2 1			COIL	1	R305			1	
Q101-06 ZSJ163PQRTX TRANSISTOR 1 R308 ERJ6GEYJ102Z 1/10W 1K 1 1 1 1 1 1 1 1	L901	RLQA100JT-Y	COIL	1	R306	ERJ6GEYJ223V	1/10W 22K	1	1
Q107					▲ R307	ERDS1FJ2R2	1/2W 2.2	1	1
Q111 25D601ATX TRANSISTOR 1 R313 ENJGGEYJIROV 1/10W 1 1 1 1 1 1 1 1 1									<u>' </u>
Q112 DTA114EUT106 TRANSISTOR 1								3	3
Q113,14 25D1328TX TRANSISTOR 2 R603 ERJGGYJ820V 1/10W 82 1				·					
Q201.02 Z5J106GBT85L TRANSISTOR 2								-	
Q301 2SD601ARTX TRANSISTOR 1								_	
Q302 25D1328TX TRANSISTOR 1 R608 ERJ6GEYJ100V 1/10W 10 1				2				-	
Q303.04 25D874QRSTX TRANSISTOR 2 R610 ERJGGEYJ471V 1/10W 470 1								<u> </u>	
Q305.06 DTC144EUT106 TRANSISTOR 2 R612,13 ERJ6GEYJ1ROV 1/10W 1 2 2 2 2 2 2 2 2 2								<u> </u>	·
Λ Q602.03 25D2137PQTA TRANSISTOR 2 R614 ERJGGEYJ1022 1/10W 1K 1 Λ Q605 25D2137PQTA TRANSISTOR 1 R615 ERJGGEYJ1032V 1/10W 3.3K 1 Q606 25D601ATX TRANSISTOR 1 R616 ERJGGEYJ103V 1/10W 10K 1 Λ Q609 25D2137PQTA TRANSISTOR 1 R627 28 ERJGGEYJ1ROV 1/10W 10K 1 Q701-03 25D601ATX TRANSISTOR 3 R630 ERDS2TJ1RDT 1/4W 1 1 Q706 UN5214TX TRANSISTOR 1 R631 ERJGGEYJ181V 1/10W 180 1								<u>-</u>	
A\ Q605 2SD2137PQTA TRANSISTOR 1 R615 ERJ6GEYJ332V 1/10W 3.3K 1 Q606 2SD601ATX TRANSISTOR 1 R616 ERJ6GEYJ103V 1/10W 10K 1 A\ Q609 2SD2137PQTA TRANSISTOR 1 R627,28 ERJ6GEYJ1ROV 1/10W 1 2 Q701-03 2SD601ATX TRANSISTOR 3 R630 ERD52TJ1RDT 1/4W 1 1 Q706 UN5214TX TRANSISTOR 1 R631 ERJ6GEYJ181V 1/10W 180 1								-	
Q606 2SD601ATX TRANSISTOR 1 R616 ERJ6GEYJ103V 1/10W 10K 1 ⚠ Q609 2SD2137PQTA TRANSISTOR 1 R627,28 ERJ6GEYJ1R0V 1/10W 1 2 Q701-03 2SD601ATX TRANSISTOR 3 R630 ERDS2TJ1R0T 1/4W 1 1 Q706 UN5214TX TRANSISTOR 1 R631 ERJ6GEYJ181V 1/10W 180 1				1				_	
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SECRETARY 1/100 B2 2 SAI 02CFFF RET TAPE 1							r			
23 CARCELLINE 1/100 180 2	Ref. No.				Remarks	Ref. No.		Part Name & Description	Pcs	F
BASE 17-00 18 1									1	
ONL CAMERTHONY 1/100 ATK 1										
CREATER 1/100 A. PK 1									1	
CHARGETIANY 1/100 A TK 1									1	
BLANCETION 1/00						SA5	RZZOLO5	NULYCOAT EM-20L	_1	
BANGETIONE 1/00 100 1										
BARRETINEZ 1/00 1K										
REMERITARY 1/100 100K						VR803	EVNDXAA00B53	V. K	_1	
RAMECHASY 1/100 6/K							FF0F0022 17	0001114700	_	ļ
BARGET/APPW 1/100 1/100 100 1						X701	EF0EC8004T4	OSCILLATOR	1	
BLISECTION 1/100 SRC										
R. REGETION 1/100 100 1						Z971	EXBF6L306SYV	COMBINATION PARTS	1	
2.2 RAIGETIANDE 1/100 1/10										
BLASSTYLEY 1704 1705 1										
REASCYLOPY 1/104 1/105 1				-						
REASECY1ATEV 1/10W 4. TK 1										
RASCEVIANY ///NW 10K 1 1				1						
REASECYIOLIZ //1/09 1/K 1				1						
REASCRIZERY 1/100 2.7K 1				1						
REAGENYATAY 1/700 47K	R738	ERJ6GEYJ102Z	1/10W 1K	1						
EBJORY 122W 1/00 20K				1						
ERJOGEVIZED 1/000 20%				1						
ERJOGY-1/109V 1/100 10K				1						
ENGERY 1797 1/100 47K				1						l
ELBOSCY1022 1/10W 10K 1				1						
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ERJGEY1102Z 1/10W 1.K									Т	
REAGEY112V 1/10W 1.2K				-			1			l
REJGGEY 11SEY 1/10W 1. SK 1 1									-	
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ERJAGEY1222V 1/10W 2.2K 1 1									\vdash	
ERJGCEY132Y 1/10W 3.3K 1						-			\vdash	
ERJGCEYJ472Y 1/10W 4.7K									\vdash	
ERJGGEYJ102V 1/10W 12K						—	 		-	
CRISCEYJICAN 1/10W 12K									⊢	
ERJ6CEYJ1632 1/10W 22K							 		-	
ERJ6GEYJ163V 1/10W 168K 1 1						———	 		├	
ERJSGEYJ151V 1/10W 150 1 ERJSGEYJ151V 1/10W 150 1 ERJSGEYJ151V 1/10W 150 1 ERJSGEYJ121V 1/10W 150 1 ERJSGEYJ110Z 1/10W 1K 1 ERJSGEYJ10Z 1/10W 1K 1 .22 ERJSGEYJ10Z 1/10W 1K 1 .22 ERJSGEYJ10Z 1/10W 1K 1 ERJSGEYJ10Z 1/10W 1K 1 .23 ERJSGEYJ10Z 1/10W 1K 1 ERJSGEYJ10Z 1/10W 1F 1 ERJSGEYJ1						—			-	
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ERJGEYJ821V 1/10W 820						 			-	
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ERDS2TJ221T 1/4W 220							ļ		L	ļ
3,74 ERDS2FJ393 1/4W 39K 2 -38 ERJ6GEY0R00Z CHIP JUMPER 38 3,04 RSH1A024-U SW 2 -0-66 EVQPTD05Q SW 7 -0-12 EVQPTD05Q SW 4 5 EVQPTD05Q SW 1 1 RSH1A018-1U SW 1 1 RSH1A018-1U SW 1										ļ
38 ERJ6GEYOR002 CHIP JUMPER 38									L	
3, 04 RSH1A024-U SW 2 0-06 · EVQPT005Q SW 7 0-12 EVQPT005Q SW 4 5 EVQPT005Q SW 1 1 SH1A018-11U SW 1 1	R973,74	ERDS2FJ393	1/4W 39K	2					L	
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3, 04 RSH1A024-U SW 2 0-06 · EVQPT005Q SW 7 0-12 EVQPT005Q SW 4 5 EVQPT005Q SW 1 1 SH1A018-11U SW 1 1	RJ1-38	ERJ6GEY0R00Z	CHIP JUMPER	38			1			T
D-06 EVQPTD05Q SW 7 D-12 EVQPTD05Q SW 4 5 EVQPTD05Q SW 1 1 RSH1A018-1U SW 1									Γ	1
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■ Cabinet Parts Location



- 31 -

■ Loading Mechanism Parts Location

Note:

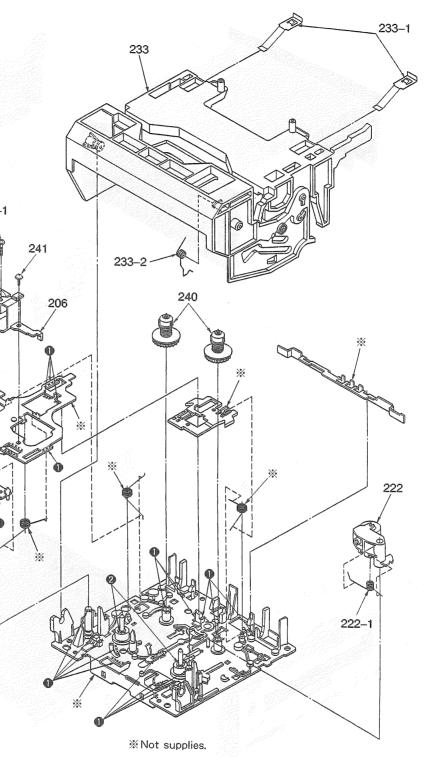
When changing mechanism parts, apply the specified grease to areas marked "XX" as shownin the drawing.

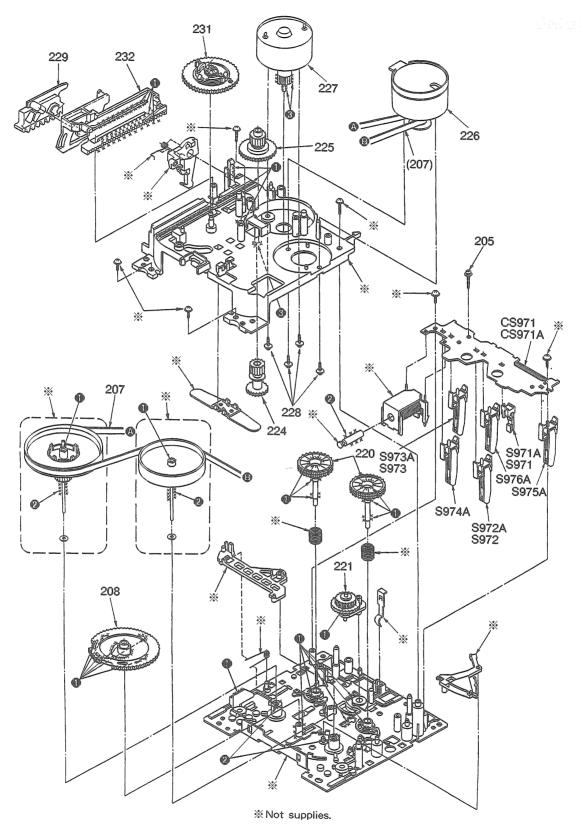
Ref. No.	Part Name	Part No.			
0	FLOIL AK-152	SZZ0L18			
0	SWAFLUID #56	RZZ0L02			
6	MOLYCOAT EM-20L	RZZ0L05			

206-2

223-1

206-3





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